

ABSTRACT OF THE DISCLOSURE

A polycarboxy binder composition that contains a dextrin as a co-binder is provided. The dextrin co-binder may be a dextrin, a modified dextrin, a maltodextrin, or combinations thereof. The dextrin may be chemically modified. A pre-binder composition is formed that contains a polycarboxy polymer, a crosslinking agent, and optionally a catalyst. The polycarboxy polymer may be a homopolymer or copolymer prepared from unsaturated carboxylic acids and may be modified to contain one or more vinyl compounds. The pre-binder crosslinking agent may be a polyol that contains at least two hydroxyl groups. The pre-binder composition may be formed by admixing the polycarboxy polymer, the crosslinking agent, and optionally, the catalyst, in a mixing device. Dextrin may be added to the pre-binder composition in an amount of from 10 - 75% of the total binder composition. The dextrin binder composition may have a ratio of from approximately 90:10 to 25:75 pre-binder:dextrin co-binder.